NEW UTILITY PATENT APPLICATION TRANSMITTAL
(Large Entity)
(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.
DP-462US

Total Pages in this Submission
70

TO THE ASSISTANT COMMISSIONER FOR PATENTS
Box Patent Application
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

PORTABLE TELEPHONE TERMINAL WITH TOLL NUMBER RETRIEVAL FUNCTION

and invented by:

Hidehiko KAMEYAMA

If a **CONTINUATION APPLICATION,** *check appropriate box and supply the requisite information:*

☐ **Continuation**   ☐ **Divisional**   ☐ **Continuation-in-part (CIP)**   of prior application No.: _____

Enclosed are:

Application Elements

1. ☒ Filing fee as calculated and transmitted as described below

2. ☒ Specification having _____15_____ pages and including the following:

     a. ☒ Descriptive Title of the Invention

     b. ☐ Cross References to Related Applications *(if applicable)*

     c. ☐ Statement Regarding Federally-sponsored Research/Development *(if applicable)*

     d. ☐ Reference to Microfiche Appendix *(if applicable)*

     e. ☒ Background of the Invention

     f. ☒ Brief Summary of the Invention

     g. ☒ Brief Description of the Drawings *(if drawings filed)*

     h. ☒ Detailed Description

     i. ☒ Claim(s) as Classified Below

     j. ☒ Abstract of the Disclosure

3. ☒ Drawing(s) *(when necessary as prescribed by 35 USC 113)*

     a. ☒ Formal

     b. ☐ Informal

         Number of Sheets _____2_____

P01ULRG/REV04

03/26/99

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Application Elements (Continued)

4. ☒ Oath or Declaration

    a. ☒ Newly executed *(original or copy)*   ☐ Unexecuted

    b. ☐ Copy from a prior application (37 CFR 1.63(d)) *(for continuation/divisional application only)*

    c. ☒ With Power of Attorney   ☐ Without Power of Attorney

5. ☐ Incorporation By Reference *(usable if Box 4b is checked)*
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

6. ☐ Computer Program in Microfiche *(Appendix)*

7. ☐ Nucleotide and/or Amino Acid Sequence Submission *(if applicable, all must be included)*

    a. ☐ Paper Copy

    b. ☐ Computer Readable Copy *(identical to computer copy)*

    c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

8. ☒ Assignment Papers *(cover sheet & document(s))*

9. ☐ 37 CFR 3.73(B) Statement *(when there is an assignee)*

10. ☐ English Translation Document *(if applicable)*

11. ☒ Information Disclosure Statement/PTO-1449   ☒ Copies of IDS Citations

12. ☐ Preliminary Amendment

13. ☒ Acknowledgment postcard

14. ☐ Certificate of Mailing

    ☐ First Class   ☐ Express Mail *(Specify Label No.):* **HAND DELIVER**

15. ☒ Certified Copy of Priority Document(s) *(if foreign priority is claimed)*

P01ULRG/REV04

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Accompanying Application Parts (Continued)

16. ☐ Additional Enclosures *(please identify below):*

Fee Calculation and Transmittal

CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate		Fee
Total Claims	7	- 20 =	0	x	$18.00	$0.00
Indep. Claims	3	- 3 =	0	x	$78.00	$0.00
Multiple Dependent Claims (check if applicable) ☐						$0.00
					BASIC FEE	$760.00
OTHER FEE *(specify purpose)* _____						$0.00
					TOTAL FILING FEE	$760.00

☒ A check in the amount of $760.00   to cover the filing fee is enclosed.

☒ The Commissioner is hereby authorized to charge and credit Deposit Account No.   **23-1951**
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    ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance,
    pursuant to 37 C.F.R. 1.311(b).

Dated: **March 26, 1999**

Signature

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CC:

P01ULRG/REV04

APPLICATION
FOR
UNITED STATES
LETTERS PATENT

Applicants: Hidehiko KAMEYAMA
For: PORTABLE TELEPHONE TERMINAL WITH
TOLL NUMBER RETRIEVAL FUNCTION
Docket No.: DP-462US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION FOR LETTERS PATENT

Title: PORTABLE TELEPHONE TERMINAL WITH TOLL NUMBER

RETRIEVAL FUNCTION

INVENTOR(S):   HIDEHIKO KAMEYAMA

PORTABLE TELEPHONE TERMINAL WITH TOLL NUMBER RETRIEVAL FUNCTION

BACKGROUND OF THE INVENTION

The present invention relates to a portable telephone terminal device. More to particularly, this invention relates to a portable telephone terminal device provided with toll number retrieval function.

5   Description of the Prior Art

Formerly, when an originating subscriber performs a toll call originating using a portable telephone, generally, the originating subscriber performs dialing of a virtual subscriber's number after a toll number of a place where a communication partner exists. For that reason, 10   the originating subscriber, even though, knows an exchange code of a virtual destination, when a toll number is unknown, the originating subscriber obtains a toll number to be performed dialing due to retrieval of a telephone directory or a guide service of a toll number.

However, there is problems that when the originating subscriber 15   performs a toll call originating using a conventional portable telephone, time is required for searching a toll number to be performed dialing, and that is complicated, and further time and cost are required.

Further, for instance, Japanese Patent Application Laid-Open No. HEI 9-172480 discloses "PORTABLE TELEPHONE". A place name 20   information which includes principal communication partners' address and toll number corresponding thereto, is stored in RAM (Random Access Memory). When the user inputs the place name information (for instance YOKOHAMA) by using a keyboard in order to perform a toll call originating to a certain communication partner, the toll number ("045") 25   corresponding to the place name is displayed on the display means such as LCD (Liquid Crystal Display Device) and so forth.

Moreover, Japanese Patent Application Laid-Open No. HEI 9-

64960 discloses TELEPHONE NUMBER DISPLAY METHOD AND DEVICE in which the telephone number and its related information are stored in the telephone number table of the telephone as data, thus the data being displayed by the display in answer to necessity.

5

SUMMARY OF THE INVENTION

In view of the foregoing, it is an object of the present invention, in order to overcome the above-mentioned problem, to provide a portable telephone terminal with toll number retrieval function in which, in a portable telephone capable of inputting and displaying character, there is function for retrieving corresponding name of municipalities or toll number from a telephone number or municipalities inputted beforehand.

According to a first aspect of the present invention, in order to achieve the above-mentioned object, there is provided a portable telephone terminal device which comprises a storage section for storing therein name of municipalities and corresponding toll number, a means for retrieving the name of municipalities from the storage section while being taken the toll number inputted from an input means to be a retrieval key, and a means for displaying the name of municipalities which is retrieved.

According to a second aspect of the present invention, in the first aspect, there is provided a portable telephone terminal device, which further comprises, a means for retrieving a toll number from the storage section, while being taken a name of municipalities inputted from the input means to be a retrieval key, and a means for displaying the toll number which is retrieved.

According to a third aspect of the present invention, there is provided a portable telephone terminal device which comprises a state discrimination means for discriminating whether an information inputted from an input means is a toll number or a name of municipalities, a

storage means for storing data of name of municipalities and toll number, a retrieval means, when the toll number is inputted from the input means, retrieves corresponding name of municipalities to the toll number from the storage section, while when the name of municipalities is inputted

5   from the input means, the retrieval means retrieves corresponding toll number to the name of municipalities from the storage section, and a display means for displaying data which is retrieved.

       According to a fourth aspect of the present invention, in the third aspect, there is provided a portable telephone terminal device, wherein it

10   is selected whether he or she inputs a toll number or a name of municipalities from the input means by the fact that he or she sets the input means to a dialing mode or a character input mode respectively, and the state discrimination means discriminates whether an information inputted from the input means is a toll number or a name of

15   municipalities while detecting this mode.

       According to a fifth aspect of the present invention, in the third aspect, there is provided a portable telephone terminal device, wherein when a predetermined retrieval key is pressed down in the input means, the retrieval means starts retrieval of the storage section with an input

20   information as a retrieval key, while until the retrieval key is pressed down, there is implemented input and editing of numerals or a character code from the input means.

       According to a sixth aspect of the present invention, in the third aspect, there is provided a portable telephone terminal device, wherein

25   when the retrieval means implements retrieval of a name of municipalities, the retrieval means retrieves name of municipalities from telephone number stored in a terminating history function storing therein telephone number of a call originating side at the time of terminating and/or from telephone number stored in a re-dialing function.

30   According to a seventh aspect of the present invention, there is

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provided a storage medium storing therein a program for executing respective processing (a) to (d) by means of a computer of a portable telephone, which comprises the processing of:

(a) a processing for discriminating whether an information inputted by an input means is a toll number or a name of municipalities, while detecting mode of the input means which is set either a dialing mode or a character input mode in accordance with the fact that a retrieval is performed by either a toll number or a name of municipalities,

(b) a processing for retrieving data of corresponding name of municipalities to an inputted toll number from a storage section for storing therein data of name of municipalities and toll number when there is judged that a toll number is inputted from the input means, at the case where pressing down of predetermined retrieval key by the input means is detected continuously to input of the toll number,

(c) a processing for retrieving data of corresponding toll number to an inputted name of municipalities from a storage section for storing therein data of name of municipalities and toll number when there is judged that a name of municipalities is inputted from the input means, at the case where pressing down of predetermined retrieval key by the input means is detected continuously to input of the name of municipalities, and

(d) a processing for controlling so as to display to be outputted data which is retrieved to a display system output device.

CONFIGURATION OF ENFORCEMENT OF THE INVENTION

There will be described a configuration of enforcement of the present invention. In the desirable configuration of enforcement of a portable telephone, referring to Fig. 1, there is provided with an input means (1), a state discrimination means (2) for discriminating whether an information inputted from the input means (1) is a telephone number (toll

number) or a name of municipalities, a storage section (4) for storing data of the name of municipalities and the corresponding toll number, a retrieval means (3) for retrieving data of the corresponding name of municipalities to the telephone number from the storage section (4) when
5   telephone number is inputted from the input means (1), while for retrieving corresponding telephone number to the name of municipalities from the storage section (4) when name of municipalities is inputted from the storage section (4), and a display means (5) for displaying data which is retrieved.

10   In the desirable configuration of the enforcement, when an information inputted from the input means (1) is the toll number, a dialing mode is set, while an information is the name of municipalities, a character input mode is set. The state discrimination means (2) discriminates whether the information inputted from the input means (1)
15   is the toll number or the name of municipalities while detecting this mode.

      In the desirable configuration of the enforcement, when a predetermined retrieval key is pressed down in the input means (1), the retrieval means (3) starts retrieval of the storage section (4) with an input
20   information as a retrieval key, while until the retrieval key is pressed down, input and editing of numerals and character code from the input means (1) are implemented.

      In the desirable configuration of the enforcement, the retrieval means (3) implements, at the time of retrieval of the name of
25   municipalities, retrieval of telephone number from a telephone number stored in terminating history function for storing therein telephone number of a call originating side at the time of the terminating, or from a telephone number stored in re-dialing function.

      In the desirable configuration of the enforcement, following each
30   processing (a) to (d) can be realized by a program which is executed in the

processing elements (computer) of the control section (10). The program is stored in a storage medium such as ROM (Read Only Memory), Memory Card and so forth. The content of the storage medium is loaded on a memory such as RAM and so forth, thus being executed on the computer.

5 (a) a processing for discriminating whether an information inputted from the input means is a toll number or a name of municipalities, while detecting mode of the input means (1), which is set either a dialing mode or a character input mode in answer to either a toll number retrieval or a name of municipalities retrieval;

10 (b) a processing for retrieving corresponding name of municipalities to the inputted toll number from the storage section (4) storing therein data of the name of municipalities and corresponding toll number thereto when there is discriminated that the toll number is inputted from the input means (1) since the user inputs the toll number, 15 continuously, the user presses down a predetermined retrieval key;

(c) a processing for retrieving corresponding toll number to the inputted name of municipalities from the storage section (4) storing therein data of the name of municipalities and corresponding toll number thereto when there is discriminated that the name of municipalities is 20 inputted from the input means (1) since the user inputs the name of municipalities, continuously, the presses down a predetermined retrieval key; and

(d) a processing for controlling so as to display to be outputted the retrieved data to a display device (5).

25 The above and further objects and novel features of the invention will be more fully understood from the following detailed description when the same is read in connection with the accompanying drawings. It should be expressly understood, however, that the drawings are for purpose of illustration only and are not intended as a definition of the 30 limits of the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a view showing a configuration of an embodiment of the present invention; and

Fig. 2 is a flowchart showing a processing flow of the embodiment

5   of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

A preferred embodiment of the present invention will be described in detail in accordance with the accompanying drawings. Fig. 1 is a view

10   showing a configuration of an embodiment of the present invention. Referring to Fig. 1, a portable telephone terminal with a toll number retrieval function of the present embodiment comprises a key input means 1 for inputting characters and numerals such as telephone number and name of municipalities and so forth, a control section 10 for

15   performing retrieval processing and so forth due to program control, and a display system output device 5 displaying data retrieved by the control section 10.

The control section 10 is provided with a state discrimination means 2 for discriminating whether a character string inputted by the

20   key input means 1 is telephone number (toll number) or a name of municipalities, a toll number table 4 in which data of the name of municipalities or the toll number is stored therein, and a table retrieval means for retrieving data of the name of municipalities or the toll number stored in the toll number table 4.

25   Fig. 2 is a flowchart for explaining a processing flow of the embodiment of the present invention, that is a view showing flowchart of a program incorporated in the control section 10. There will be described operation of the present embodiment of the invention referring to Figs. 1 and 2.

30   The user of the portable telephone selects whether he retrieves a

toll number or he retrieves a name of municipalities by using the key input means 1. When the user retrieves a toll number, the user inputs the name of municipalities of the object (name of place) in order to input the name of municipalities while setting a character input mode by the key

5   input means 1 (STEP S1, S2).

When the input of the name of municipalities is completed, the user inputs a retrieval key predetermined beforehand, which is provided for the sake of retrieval at the key input means 1.

In STEP S3, there is judged whether or not the retrieval key is

10   pressed down. It is capable of being performed input of the character and correction thereof by using the key input means 1 until when the retrieval key is pressed down (NO branch of STEP S3).

When there is recognized that the retrieval key is pressed down (YES branch of STEP S3), there is implemented retrieval of the toll

15   number (STEP S4).

When corresponding toll number is retrieved (YES branch of STEP S5), there is displayed the toll number retrieved beforehand to the display system output device 5 (STEP S6). On the other hand, when the corresponding toll number is not retrieved in the toll number retrieval

20   processing of STEP S4 (NO branch of STEP S5), there is displayed the matter that there is no corresponding data to the display system output device 5 (STEP S7), thus returning to input state of the name of municipalities, again (STEP S2).

Furthermore, when the user retrieves the name of place, the user

25   inputs the toll number of the object while setting a dialing input mode by using the key input means 1 in order to input the toll number (STEP S1, S8).

When the input of the toll number is completed, the user inputs the retrieval key predetermined beforehand, which is provided for the key

30   input means 1 for retrieval. In STEP S9, there is judged whether or not

the retrieval key is pressed down. It is capable of being performed input and correction of the toll number until when the retrieval key is pressed down (NO branch of STEP S9).

When there is recognized that the retrieval key is pressed down (YES branch of STEP S9), the retrieval of the name of municipalities is implemented (STEP S10). The portable telephone terminal with toll number retrieval function is constituted that, at this time, it is capable of retrieving the name of municipalities from a telephone number stored in function (terminating history) for storing telephone number of a call originating side at the time of terminating, or a telephone number stored in redialing function.

When the corresponding name of municipalities is retrieved (YES branch of STEP S11), there is displayed the whole name of municipalities retrieved beforehand to the display system output device 5 (STEP S12). On the other hand, the corresponding name of municipalities is not retrieved (NO branch of STEP S11), there is displayed that there is no corresponding data therein, on the display system output device 5 (STEP S13), thus returning to input state of a toll number again (STEP S8).

Hereinafter, there will be described processing of a retrieval of the toll number (0495) of Kamikawa Machi (Saitama Prefecture) by way of a retrieval of a toll number. The user inputs Kamikawa Machi while setting a character input mode by using the key input means 1 in order to input Kamikawa Machi (STEP S1, S2). The retrieval of the toll number is implemented while pressing down the retrieval key after inputting (STEP S3, S4). When the toll number (0495) of Kamikawa Machi is retrieved, (0495) is displayed on the display system output device 5 (STEP S5, S6).

On the other hand, when the toll number can not be retrieved caused by an error of character input or the like, displaying on the display output device that there is no corresponding data therein, thus returning to character input screen again, subsequently, retrieval is implemented

again after correction of character input (STEP S5, S7, S2).

Next, there will be described processing for retrieving corresponding name of municipalities to (0492) by way of retrieval of a name of municipalities. At this case, the user inputs (0492) while setting mode to dialing input mode by using the key input means 1 in order to input (0492) (STEP S1, S8). There is implemented the retrieval of the name of municipalities while pressing down the retrieval key after dialing input (STEP S9, S10). Then, when the corresponding name of municipalities to (0492) is retrieved, displaying the whole corresponding names of municipalities on the display system output device 5 (STEP S11, S12).

On the other hand, the corresponding name of municipalities can not be retrieved caused by an error of dialing input or the like, there is displayed on the display system out put device 5 that there is no corresponding data, thus returning to the dialing input screen again, subsequently, retrieving again after correction of the error (STEP S11, S13, S8).

The portable telephone of the present embodiment is suitable for use in the case where when the user makes a journey and so forth, the user intend to hear a weather forecast of the end of his journey.

There will be described another embodiment of the present invention. From February 1998, a postal code is subdivided in a district level of municipalities. When function of postal code discrimination which is used in a post office is utilized in the toll number retrieval of the present invention, it is capable of being possessed of a postal code retrieval function.

As described above, according to the present invention, when a toll number is unknown although the exchange code is known, the user can obtain the toll number immediately, thus there is the effect that serviceable characteristic of the portable telephone is improved.

Furthermore, according to the present invention, since it is capable of being implemented retrieval from a terminating history or a redialing function, the user can retrieve the place where the communication partner performs call originating and an area to which the partner makes a telephone call.

While preferred embodiments of the invention have been described using specific terms, such description is for illustrative purpose only, and it is to be understood that changes and variations may be made without departing from the spirit or scope of the following claims.

12

WHAT IS CLAIMED IS:

1.   A portable telephone terminal device comprising:

a storage section for storing therein a name of municipalities and a corresponding toll number thereto;

5   a means for retrieving said name of municipalities from said storage section while being taken said toll number inputted from an input means to be a retrieval key; and

a means for displaying the name of municipalities which is retrieved.

2.   A portable telephone terminal device as claimed in claim 1, further comprising:

a means for retrieving said toll number from said storage section while being taken the name of municipalities inputted from said input

5   means to be a retrieval key; and

a means for displaying the toll number which is retrieved.

3.   A portable telephone terminal device comprising:

a state discrimination means for discriminating whether an information inputted from an input means is a toll number or a name of municipalities;

5   a storage section for storing data of a name of municipalities and corresponding toll number thereto;

a retrieval means, when the toll number is inputted from said input means, for retrieving corresponding name of municipalities to said toll number from said storage section, while when the name of

10   municipalities is inputted from said input means, said retrieval means retrieves corresponding toll number to said name of municipalities from said storage section; and

a display means for displaying data which is retrieved.

4.   A portable telephone terminal device as claimed in claim 3, wherein it is selected whether he or she inputs a toll number or a name of municipalities from said input means by the fact that he or she sets said input means to a dialing mode or a character input mode respectively, and

5   said state discrimination means discriminates whether an information inputted from said input means is a toll number or a name of municipalities, while detecting this mode.

5.   A portable telephone terminal device as claimed in claim 3, wherein when a predetermined retrieval key is pressed down in said input means, said retrieval means starts retrieval of said storage section with an input information as a retrieval key, while until said retrieval key

5   is pressed down, there is implemented input and editing of numerals or a character code from said input means.

6.   A portable telephone terminal device as claimed in claim 3, wherein when said retrieval means implements retrieval of a name of municipalities, said retrieval means retrieves name of municipalities from telephone number stored in a terminating history function section

5   for storing therein telephone number of a call originating side at the time of terminating and/or from telephone number stored in a redialing function section.

7.   A storage medium for storing therein a program for executing respective processing (a) to (d) by a computer of a portable telephone comprising the processing of:

(a) a processing for discriminating whether an information

5   inputted by an input means is a toll number or a name of municipalities, while detecting mode of said input means which is set either a dialing mode or a character input mode in accordance with the fact that a

retrieval is performed by either a toll number or a name of municipalities;

(b) a processing for retrieving data of corresponding name of municipalities to an inputted toll number from a storage section for storing therein data of name of municipalities and toll number when there is judged that a toll number is inputted from said input means, at the case where pressing down of predetermined retrieval key in said input means is detected continuously to input of said toll number;

(c) a processing for retrieving data of corresponding toll number to an inputted name of municipalities from a storage section for storing therein data of name of municipalities and toll number when there is judged that a name of municipalities is inputted from said input means, at the case where pressing down of predetermined retrieval key in said input means is detected continuously to input of said name of municipalities; and

(d) a processing for controlling so as to display to be outputted data which is retrieved to a display device.

ABSTRACT OF THE DISCLOSURE

A portable telephone terminal with toll number retrieval function which enable either corresponding name of municipalities or toll number to be retrieved to telephone number or to name of municipalities respectively. The portable telephone terminal is provided with a state discrimination means for discriminating whether an information inputted from an input means is a toll number or a name of municipalities in accordance with a mode which is set either a dialing mode or a character input mode, a storage section for storing therein data of name of municipalities and toll number, a retrieval means when the toll number is inputted, retrieving name of municipalities from the storage section, while when the name of municipalities is inputted, retrieving a toll number from the storage section, and a display means for displaying data which is retrieved.
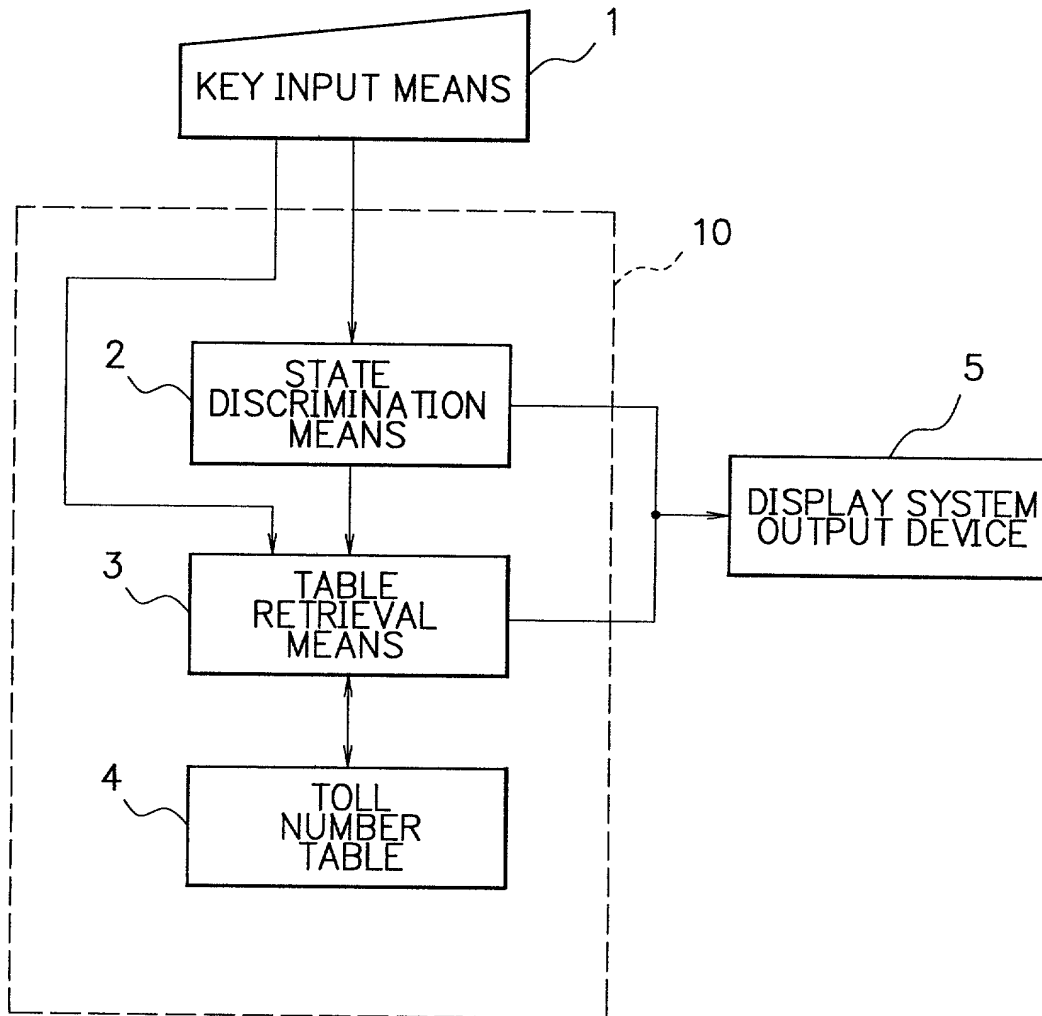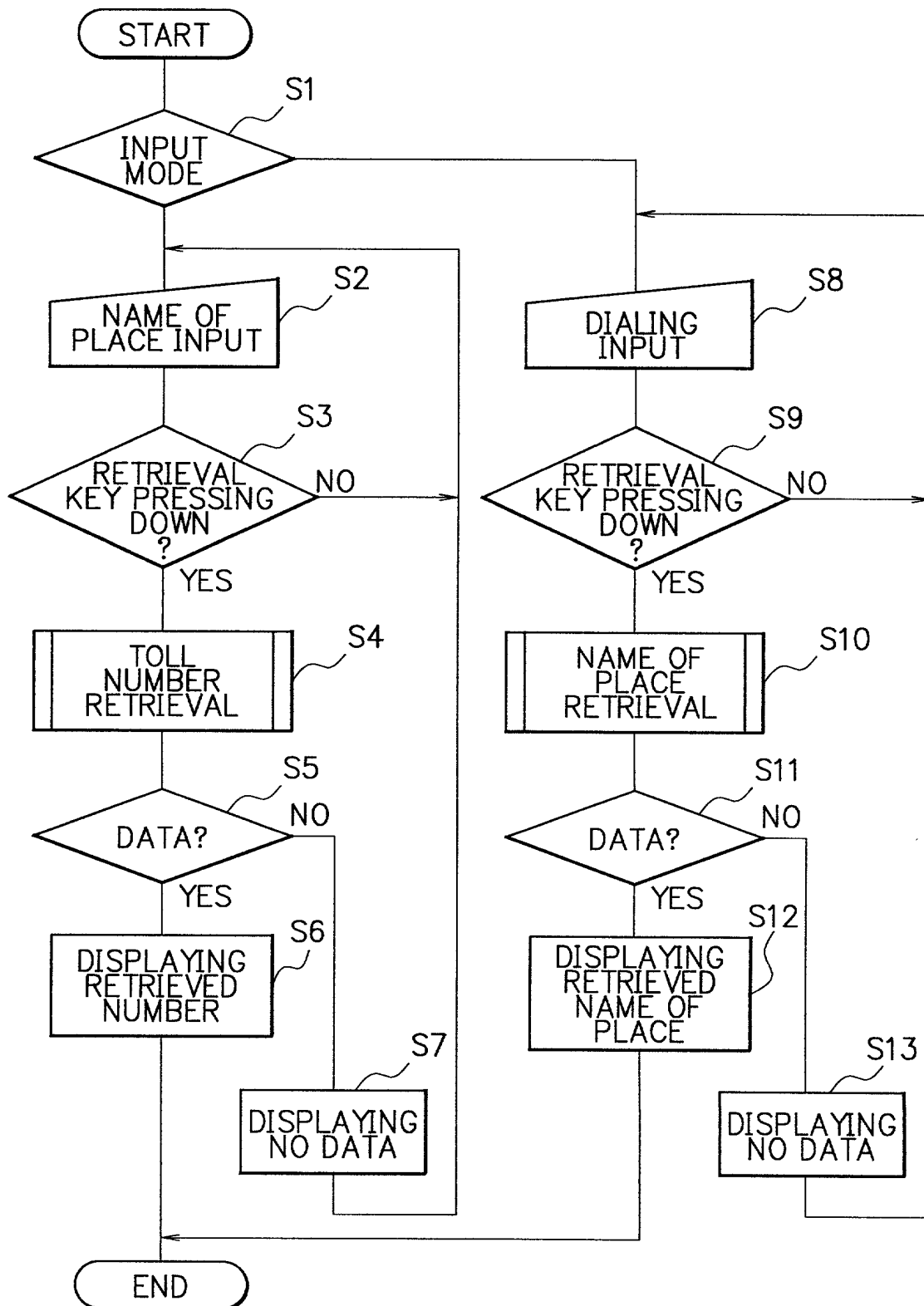
F I G. 1

FIG. 2

```
           ┌─────────┐
           │  START  │
           └────┬────┘
                │                                    S1
            ◇───┴───◇─────────────────────────────────────────┐
           ╱  INPUT  ╲                                         │
           ╲  MODE   ╱                                         │
            ◇───┬───◇                                          │
                │                                              │
    ┌───────────┴──────────┐          ┌──────────────────────┐│
    │      S2              │          │         S8            ││
    │  ┌──────────────┐    │          │   ┌──────────────┐    ││
    │  │   NAME OF    │    │          │   │   DIALING    │    ││
    │  │ PLACE INPUT  │    │          │   │   INPUT      │    ││
    │  └──────┬───────┘    │          │   └──────┬───────┘    ││
    │         │     S3     │          │          │      S9    ││
    │     ◇───┴───◇   NO   │          │      ◇───┴───◇   NO   ││
    │    ╱ RETRIEVAL╲──────┼──┐       │     ╱ RETRIEVAL╲──────┼┤
    │    ╲KEY PRESSING╱    │  │       │     ╲KEY PRESSING╱    ││
    │     ◇DOWN?◇          │  │       │      ◇DOWN?◇          ││
    │        │YES          │  │       │         │YES          ││
    │  ┌─────┴──────┐ S4   │  │       │   ┌─────┴──────┐ S10  ││
    │  │║   TOLL   ║│      │  │       │   │║  NAME OF  ║│     ││
    │  │║  NUMBER  ║│      │  │       │   │║   PLACE   ║│     ││
    │  │║RETRIEVAL ║│      │  │       │   │║ RETRIEVAL ║│     ││
    │  └─────┬──────┘      │  │       │   └─────┬──────┘      ││
    │        │    S5       │  │       │         │     S11     ││
    │    ◇───┴───◇  NO     │  │       │     ◇───┴───◇  NO     ││
    │   ╱  DATA?  ╲────────┼┐ │       │    ╱  DATA?  ╲────────┼┤
    │    ◇───┬───◇         ││ │       │     ◇───┬───◇         ││
    │        │YES          ││ │       │         │YES   S12    ││
    │  ┌─────┴──────┐ S6   ││ │       │   ┌─────┴──────┐      ││
    │  │ DISPLAYING │      ││ │       │   │ DISPLAYING │      ││
    │  │ RETRIEVED  │      ││ │       │   │ RETRIEVED  │      ││
    │  │  NUMBER    │      ││ │       │   │  NAME OF   │      ││
    │  └─────┬──────┘      ││ │       │   │   PLACE    │      ││
    │        │         S7  ││ │       │   └─────┬──────┘      ││
    │        │  ┌──────────┴┤ │       │         │        S13  ││
    │        │  │DISPLAYING │ │       │         │  ┌──────────┴┤
    │        │  │ NO DATA   │ │       │         │  │DISPLAYING │
    │        │  └───────────┘ │       │         │  │ NO DATA   │
    │        │                │       │         │  └───────────┘
    └────────┴────────────────┴───────┴─────────┘
                │
           ┌────┴────┐
           │   END   │
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Application for United States Patent

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled
PORTABLE TELEPHONE TERMINAL WITH TOLL NUMBER RETRIEVAL FUNCTION
the specification of which:

(check
one)

    ☒ is attached hereto

    ☐ was filed on _____ , as
    Application Serial No. _____
    and was amended on _____ .
                  (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56*

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

			priority claimed
104102/1998	Japan	31/3/1998	x
(Number)	(Country)	(Day/Month/Year Filed)	yes no
(Number)	(Country)	(Day/Month/Year Filed)	yes no
(Number)	(Country)	(Day/Month/Year Filed)	yes no

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)	(Status: patented, pending, abandoned)

Power of Attorney: As a named inventor, I hereby appoint C. Lamont Whitham, Reg. No. 22,424, Marshall M. Curtis, Reg. No. 33,138, and Michael E. Whitham, Reg. No. 32,635, as attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. All correspondence should be directed to Whitham, Curtis & Whitham, Reston International Center, 11800 Sunrise Valley Dr., Suite 900, Reston, Virginia 20191. Telephone calls should be directed to Whitham, Curtis & Whitham at (703) 391-2510.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole
or First Inventor___ HIDEHIKO KAMEYAMA

Inventor's Signature _____ _h. Kameyama_ Date__ March 23, 1999 __

Residence ____ Saitama, Japan __

Citizenship____ Japanese

Post Office Address ____ c/o NEC Saitama, Ltd., 300-18, Aza Toyohara, Oaza Motohara,
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Inventor's Signature _____ Date _____

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Full Name of Third
Joint Inventor, If Any _____

Inventor's Signature _____ Date _____

Residence _____

Citizenship _____

Post Office Address _____
Full Name of Fourth
Joint Inventor, If Any _____

Inventor's Signature _____ Date _____

Residence _____

Citizenship _____

Post Office Address _____

Full Name of Fifth
Joint Inventor, If Any _____

Inventor's Signature _____ Date _____

Residence _____

Citizenship _____

Post Office Address _____

*Title 37, Code of Federal Regulations, § 1.56:

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith toward the Patent and Trademark Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and (1) it establishes , by itself or in combination with other information, a prima facie case of unpatentability; or (2) it refutes, or is inconsistent with, a position the applicant takes in: (i) opposing an argument of unpatentability relied on by the Office, or (ii) asserting an argument of patentability.